

This listing of claims will replace all prior versions and listings of claims in this application:

a.) Listing of Claims

1. (Previously presented) A method for distributed data archiving, comprising the steps of:
  - accessing patient medical data from at least one external source;
  - segmenting the patient medical data into a plurality of information groups with each information group corresponding to information about a particular patient;
  - providing a data archiving system comprised of a plurality of archival storage media;
  - storing each information group onto an archival storage media, said information groups being stored on said archival storage media with each group having an identification, the identification being unique from all other information groups stored within said archival storage media and all other archival storage media enabling said information groups to be independently accessed, within or without the data archiving system in which the information groups were created;
  - each said information group being stored entirely only on one of said plurality of archival storage media;
  - encoding a unique identifier on said one of said storage media to uniquely identify the storage media from all other storage media;
  - said encoding step including recording an index file having at least an identifier and a database file on said one of said storage media, wherein the database file recorded on the storage media contains information describing clinical procedures of the patient medical data stored on the storage media; and
  - independently accessing said one of said storage media at a site other than said data archiving system by reading said index file.

2. (Original) A method according to claim 1, wherein said archival storage media comprise digital versatile disks (DVDS).
3. (Original) A method according to claim 1, wherein each said archival storage media comprises a self-contained database file for each of said information groups.
4. (Original) A method according to claim 3, wherein said database file is implemented by Digital Image Communications for Medicine (DICOM-3).
5. (Original) A method according to claim 3, wherein said information groups comprise meta-data and image data.
6. (Original) A method according to claim 5, wherein each of said archival storage media comprises an embedded image player for viewing the images.
7. (Original) A method according to claim 5, wherein each of said archival storage media comprises an application for interpreting the meta-data.
8. (canceled)
9. (Original) A method according to claim 1, further comprising the step of creating an executable program on each of said archival storage media for retrieving said information groups stored thereon.
10. (Original) A method according to claim 1, further comprising the step of recording said information groups on said archival storage media as near-line and off-line storage.
11. (Original) A method according to claim 1, wherein a first subset of said archival storage media is provided as on-line storage.
12. (Original) A method according to claim 1, wherein a second subset of said archival storage media is provided as near-line storage.

13. (Original) A method according to claim 1, wherein a third subset of said archival storage media is provided as off-line storage.
14. (Previously presented) A method according to claim 11, wherein said on-line storage comprises a hard disk.
15. (Previously presented) A method according to claim 12, wherein said near-line storage comprises a jukebox storage for providing sequentially selectable access to at least one archival storage media.
16. (Previously presented) A method according to claim 13, wherein said off-line storage comprises shelf storage for said archival storage media.
17. (Currently amended) A distributed data archiving system, comprising, a user interface for controlling the system, said user interface including a processor for receiving data from a plurality of external sources and segmenting the data into a plurality of information groups; and a memory storage comprised of a plurality of separate archival storage media for storing information groups, each said information group being stored entirely only on one of said plurality of archival storage media; each storage media comprising: 1) an identification, the identification being unique from that an identification of any other of said storage media stored thereon or stored on any other archival storage media; and 2) a database file containing information describing clinical procedures of the information groups stored on the storage media[;], so that said information groups are capable of being independently accessed, within or without the archiving system in which the information groups were created; an available storage capacity of the media being determined by using a predefined percentage full value for the storage media, wherein an information group is recorded on the storage media if the percentage full value is not exceeded and wherein if the recording of the information

group onto the storage media exceeds the percentage full value then a different storage media is selected.

18. (Original) A distributed data archiving system according to claim 17, wherein said user interface comprises a personal computer.

19. (Original) A distributed data archiving system according to claim 17, wherein said external source comprises a workstation.

20. (Original) A distributed data archiving system according to claim 17, wherein said external source comprises a network compatible device.

21. (Original) A distributed data archiving system according to claim 17, wherein said memory storage comprises on-line, near-line, and off-line storage media.

22. (Original) A distributed data archiving system according to claim 21, wherein said on-line storage medium comprises a hard disk.

23. (Original) A distributed data archiving system according to claim 21, wherein said on-line storage medium comprises a redundant array of independent disks.

24. (Original) A distributed data archiving system according to claim 21, wherein said near-line storage medium comprises a jukebox storage for providing sequentially selectable access to said archival storage media.

25. (Original) A distributed data archiving system according to claim 21, wherein said off-line storage medium comprises shelf storage for said archival storage media.

26. (Original) A distributed data archiving system according to claim 17, wherein said user interface creates an index file for characterizing all of said

information groups to be stored on said archival storage media and stores said index file and said information groups on said archival storage media.

27. (Previously presented) A distributed data archiving system according to claim 17, wherein said user interface creates an executable program for retrieving said information groups stored on said archival storage media and stores said executable program on said archival storage media.

28. (Original) A distributed data archiving system according to claim 17, wherein said archival storage media comprise digital versatile disks (DVDs).

29. (Original) A distributed data archiving system according to claim 17, wherein each said archival storage media comprises a self-contained database file for each of said information groups.

30. (Original) A distributed data archiving system according to claim 29, wherein said database file is implemented by Digital Image Communications for Medicine (DICOM-3).

31. (Original) A distributed data archiving system according to claim 21, further comprising a media recorder for recording said information groups on said archival storage media as near-line and off-line archival storage media.

32. (Previously presented) A method according to claim 1 including independently accessing said one of said storage media by accessing the storage media at a clinical imaging station allowing a review of archived images outside of the data archiving system in which the storage media was originally created.

33. (Previously presented) A method according to claim 1 including encoding an index file that also has a data program and an image player.

34. (Previously presented) A method according to claim 1 wherein the identifier comprises a volume label.

35. (Previously presented) A method according to claim 33 wherein the database file holds all of meta-data required to completely describe a procedure or study stored on the storage media.
36. (Previously presented) A method according to claim 1 including determining an available storage capacity by using a predefined percentage full value for the storage media.
37. (Previously presented) A method according to claim 36 wherein the information group is recorded on the storage media if the percentage full value is not exceeded.
38. (Previously presented) A method according to claim 37 wherein if the recording of the information group onto the storage media exceeds the percentage full value then a different storage media is selected.
39. (Currently amended) A method according to claim 1 including determining ~~the~~ an available storage capacity of the storage media and comparing an available storage capacity of the storage media to a storage capacity of the information group.
40. (Currently amended) A distributed data archiving system according to claim 17 wherein a unique identifier is encoded on said one of said storage media to uniquely identify the storage media from ~~that of~~ all other storage media, including recording an index file on said one of said storage media.
41. (Previously presented) A distributed data archiving system according to claim 40 wherein the same information group is stored on more than one storage medium having a different unique identifier associated with each.
42. (currently amended) A method for distributed data archiving, comprising the steps of:
  - accessing patient medical data from a plurality of external sources;

segmenting the patient medical data into a plurality of information groups;  
providing a data archiving system comprised of a plurality of archival storage  
media;  
storing each information group onto an archival storage media;  
said information groups being stored on said archival storage media with each  
group having an identification, the identification being unique from ~~that~~  
an identification of any other information groups stored within said  
archival storage media and all other archival storage media enabling said  
information groups to be independently accessed, within or without the  
data archiving system in which the information groups were created;  
each said information group being stored entirely only on one of said plurality  
of archival storage media by the following sub steps;  
determining an available storage capacity of the storage medium,  
comparing the available storage capacity of the storage medium to the  
information group that is to be stored,  
recording the information group on the selected storage medium only if a  
size of the information group is smaller than the available storage capacity  
of the storage medium, and  
selecting another storage medium if the size of the information group is  
larger than the available storage capacity of the storage medium;  
encoding a unique identifier on said one of said storage media to uniquely  
identifying the storage media from ~~that of~~ all other storage media;  
said encoding step including recording an index file on said one of said storage  
media, the index file including a database file recorded on the storage  
media containing information describing clinical procedures of the patient  
medical data stored on the storage media; and  
independently accessing said one of said storage media at a remote site other  
than said data archiving system by reading said index file.

43. (Previously presented) A method according to claim 42 wherein the same information group is stored on more than one storage medium having a different unique identifier associated with each.
44. (Previously presented) A method according to claim 1, wherein the database file further contains patient demographic information relevant to the clinical procedures recorded on the storage media.
45. (Previously presented) A distributed data archiving system according to claim 17, wherein the database file further contains patient demographic information relevant to the clinical procedures recorded on the storage media.
46. (Previously presented) A method according to claim 42, wherein the database file further contains patient demographic information relevant to the clinical procedures recorded on the storage media.